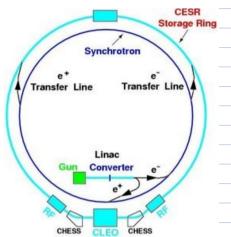
Chil fun continued

chil / sl. html Concept Q

The particles are accelerated to 6 GeV within the synchrotron using E fields directed tangent to the circular orbits. In order to get the electrons circulating counter-clockwise, is E directed clockwise or counter-clockwise?



a) clockwise

b) counter-clockwise

can accelerate both et and e

chil tatorial B. Force. particle. Ltml

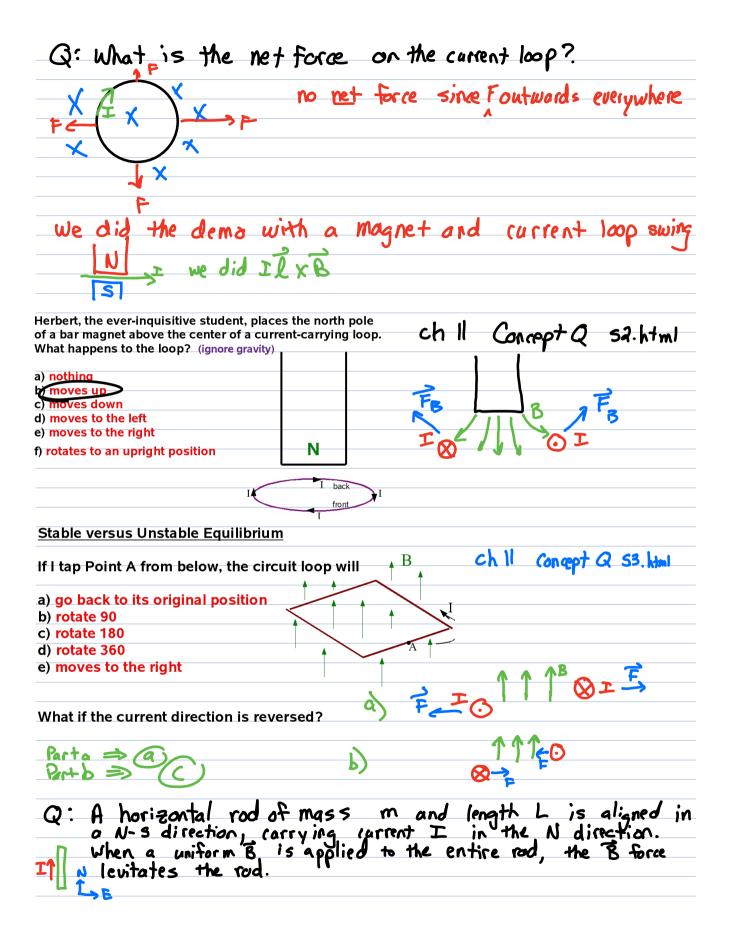
#2 double v -> double

#3 R remains unchanged

#4
$$T = \frac{dist}{Speed} = \frac{2\pi R}{V} = \frac{2\pi Rm}{9BR} = \frac{2\pi m}{9B}$$
 no dependence

A slight generalization of qvxB force

->dF = (nk-1 v A) dlB sina (-11



a)	Find	the	minimum	B	nece ssary
					<u>'</u>